

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 1

Item ID: D3391-021

Accept



Setup Start



Revision ID:

Item Name: Fwd Tube Assembly

Stop



Start Date: 2/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/16/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan: MF

Date: 11-02-01

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3391	Rev H

100



Skidtubes

0.00

11-2-2

Skidtubes

Memo

0.00

Skidtubes

Cut extrusion to 46.52 +0.010 -0.020

110



BENDING MACHINE - SKIDTUBES

0.00

11-2-2

CNC Bend 1

CNC Delta 100 Bender

Memo

0.00

Bend as per Dwg D3391 Using Bend Prog 3391021

120



QC5- Inspect part completeness to step on W/O

0.00

QC

Quality Control

Memo

0.00

 $h_2 = 6.8"$   
 $L = 12.9"$

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 2

Item ID: D3391-021

Accept



Setup Start



Revision ID:

Item Name: Fwd Tube Assembly

Stop



Start Date: 2/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/16/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



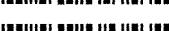
QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

130

Operation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

0.00

HAAS CNC VERTICAL MACHINING #1

HAAS 1

HAAS CNC vertical machine #1

Memo

0.00

1-Machine as per Folio FA590 Rev. AA & Dwg D3391 Rev. H  
Identify as D3391-1  
2-Deburr

H

SL 11/02/15

①

140



QC2- inspect parts off machine FAI/FAIB

0.00

SL 11/02/15

QC

Quality Control

Memo

0.00

150



CONVENTIONAL MILLING MACHINE

0.00

Mill Conv

Conventional Milling Machine

Memo

0.00

Drill X1 Aft cap as per Dwg D3391 .1875" dia

SL 11/02/16

1 8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 3

Item ID: D3391-021

Accept



Setup Start



Revision ID:

Item Name: Fwd Tube Assembly

Stop



Start Date: 2/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/16/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

160



QC

Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

SL W02/16

170



QC

Quality Control

QC8- Inspect parts - second check

0.00

ark/1/02/16

Memo

0.00

1 P

Memo

W/O:

## WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date &amp; initial all entries

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 4

Item ID: D3391-021

Revision ID:

Item Name: Fwd Tube Assembly

Start Date: 2/2/2011 Start Qty: 1.00

Accept



Setup Start



Required Date: 2/16/2011 Req'd Qty: 1.00



Cust Item ID:



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

180



Skidtubes

Skidtubes

0.00

Skidtubes

Memo

0.00

1-Drill float bag holes as per Dwg D3391 using DT8798(Do not open tow cap holes to finish size)  
(ONLY DRILL HOLES MARKED "A")

2-Drill Remaining two holes for tow cap using DT 8819 Locating off of .1875" holes drilled in previous step

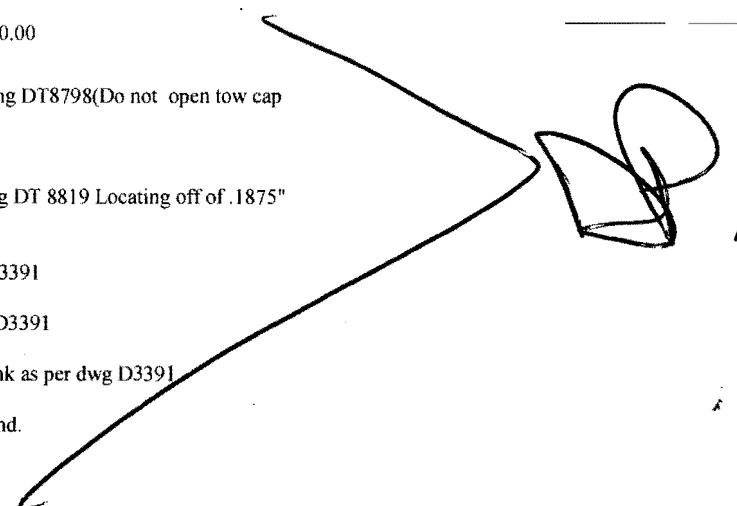
3-Open tow cap holes to .208" as per Dwg D3391

4-Open Tow Ring hole to .640" as per Dwg D3391

5- open float bag holes 0.328" and counter sink as per dwg D3391

6-Deburr & Scribe Batch number Inside aft end.

7-Transfer drill D3391-021 with D3391-023



190



QC5- Inspect part completeness to step on W/O

0.00

QC

Quality Control

Memo

0.00

510477  
11-4-27

11-4-27  
11-4-27

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 5

Item ID: D3391-021

Accept



Setup Start



Revision ID:

Item Name: Fwd Tube Assembly

Stop



Start Date: 2/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/16/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

200



HandFinish

Operation  
Description

Chemical Conversion Coat per QSI005 4.1

Set Up/  
Run Hours

0.00

Tool ID

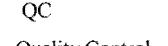
Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

DP

11-4-27

210



QC

Quality Control

QC3- Inspect Part Finish

0.00

1 0 BE u/04/27

220



Skidtubes

Skidtubes

0.00

1 0 BE u/04/27

Skidtubes

Memo

0.00

I-instal spacers as per dwg D3391  
 A/R Magnabond 6398, batch:  
 exp. date: 08/2011 M116678  
 cure time 12hrs. as per QSI015  
 2- grind crossbolt flush  
 3-back drill crossbolt if necessary

&gt; DD

11-4-28

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 6

Item ID: D3391-021

Accept



Setup

Start



Revision ID:

Item Name: Fwd Tube Assembly

Stop



Start Date: 2/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/16/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_

Date: \_\_\_\_\_

Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

Run

Start



QC: \_\_\_\_\_

Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
Description

230



QC

Quality Control

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

0.00

8 w/w 125

235



HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

240



Powdercoat

Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

Memo

0.00

START TIME: 1:40  
OVEN TEMPERATURE: 300°  
FINISH TIME: 2:10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 7

Item ID: D3391-021

Accept



Setup Start



Revision ID:

Item Name: Fwd Tube Assembly

Stop



Start Date: 2/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/16/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

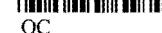
Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

250

QC3- Inspect Part Finish

0.00

1 4 M 1/04/29



QC

Memo

0.00

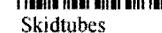
Quality Control

255

Skidtubes

0.00

1 BL 11-11-29



Skidtubes

Memo

0.00

Skidtubes

\*\*\*\* install D3591-1 spacer as per DS19364 and wearplate and gasket as per  
DWG \*\*\*\*

257

QC5- Inspect part completeness to step on W/O

0.00

0.00 8 uar/29



QC

Memo

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 66006**

Tuesday, February 01, 2011 12:59:23 PM



Page 8

Item ID: D3391-021

Accept



Setup Start



Revision ID:

Item Name: Fwd Tube Assembly

Stop



Start Date: 2/2/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/16/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

260

Operation  
DescriptionIdentify as per dwg & Stock Location: W10Set Up/  
Run Hours

0.00

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Packaging

Packaging

Memo

0.00

16 04 29

280



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

L 11 04 29

MF

11-04-29

W/O:

## WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date &amp; initial all entries

# Picklist Print

Page 1

Tuesday, February 01, 2011 12:59:15 PM

Work Order ID: 66006



Parent Item: D3391-021



Parent Item Name: Fwd Tube Assembly

Start Date: 2/2/2011

Required Date: 2/16/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A 05.09.13 New issue KJ/JLM  
IPP B 06.02.10 Dwg rev.D ecn 773 EC  
IPP C 06.05.02 Added inspections EC  
IPP D 07.03.13 rev F dwg EC  
IPP E 07.11.07 revG dwg ecn1053P EC verified by: DD  
IPP Rev:f ECN 1056 07-11-12 DD verified by: EC  
IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC  
IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC  
IPP Rev J 09.02.02 added hardware EC verified by: DD

Component Item ID/ Item Name	Item ID	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6013-047			Manufactured	No			100	Each	34.0000	1	1			

Skidtube Material

				Location		Loc Qty	Loc Code	
				LG	23935 26547			
						34		
						3		
						31		
						4		
						4		

SPACER

				Location		Loc Qty	Loc Code	
				LG	57349 63317			
						56		
						34		
						22		

D3401-041



Tow Cap Assembly



Location	Loc Qty	Loc Code
FP	11	
46029	10	
50316	1	

1 BL 11-4-29

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

Tuesday, February 01, 2011 12:59:16 PM

Page 2

Work Order ID: 66006



Parent Item: D3391-021



Parent Item Name: Fwd Tube Assembly

Start Date: 2/2/2011

Required Date: 2/16/2011

Start Qty: 1.00

Required Qty: 1.00

D3564-13



Manufactured No

255

Each

13.0000

1

1



Wearshoe

Location	Loc Qty	Loc Code
FP17 66134	13	
59660	1	
62229	12	

1

BL M-4-29

D3566-13



Manufactured No

255

Each

23.0000

1

1



Gasket

Location	Loc Qty	Loc Code
FP012 66550	3	
61996	3	
FP014	20	
64070	20	

1

BL 11-4-29

AN960C10L

NAS1149C0332✓  
R



Purchased No

M117291

255

Each

25.0000

10

10



washer

Location	Loc Qty	Loc Code
ST245	25	
107534	25	

10

AN3C4A



Purchased No

255

Each

2,072.000

10

10



BOLT

Location	Loc Qty	Loc Code
ST350	2072	
115300	25	
116075	947	
116590	100	
116704	1000	



M116924

10

BL 11-4-29

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

Tuesday, February 01, 2011 12:59:16 PM

Page 3

Work Order ID: 66006



3

Parent Item: D3391-021



Parent Item Name: Fwd Tube Assembly

Start Date: 2/2/2011

Required Date: 2/16/2011

Start Qty: 1.00

Required Qty: 1.00

D3672-1



Manufactured No

255

Each

1,307.000

4

4



Phenolic Washer

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST077	1307	
42329	10	
52505	297	
64177	1000	

4

BL 11-41-29.

AELS-1032-130



Purchased

No

M 117331

255

Each

0.0000

2

2

BL 11-41-29.

INSERT

AELS-1032-225



Purchased

No

M 110 768.

255

Each

0.0000

10

10

BL 11-41-29.

INSERT

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

<b>DART AEROSPACE LTD</b>	<b>Work Order:</b>	66006
<b>Description:</b> Float Skidtube (412)	<b>Part Number:</b>	D3391-1
<b>Inspection Dwg:</b> D3391 <b>Rev:</b> H		<b>Page 1 of 1</b>

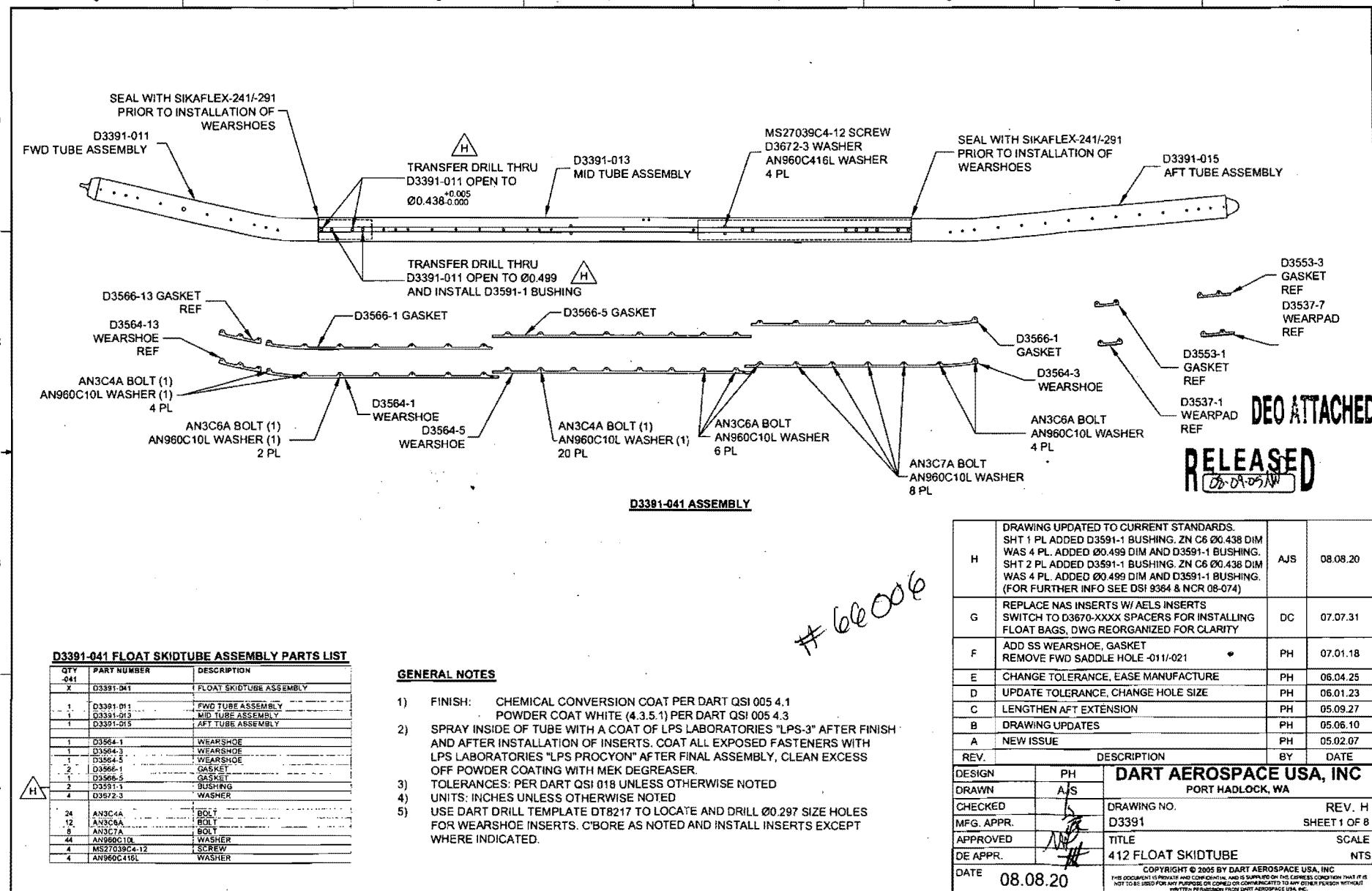
# **FIRST ARTICLE INSPECTION CHECKLIST**

## X First Article      Prototype

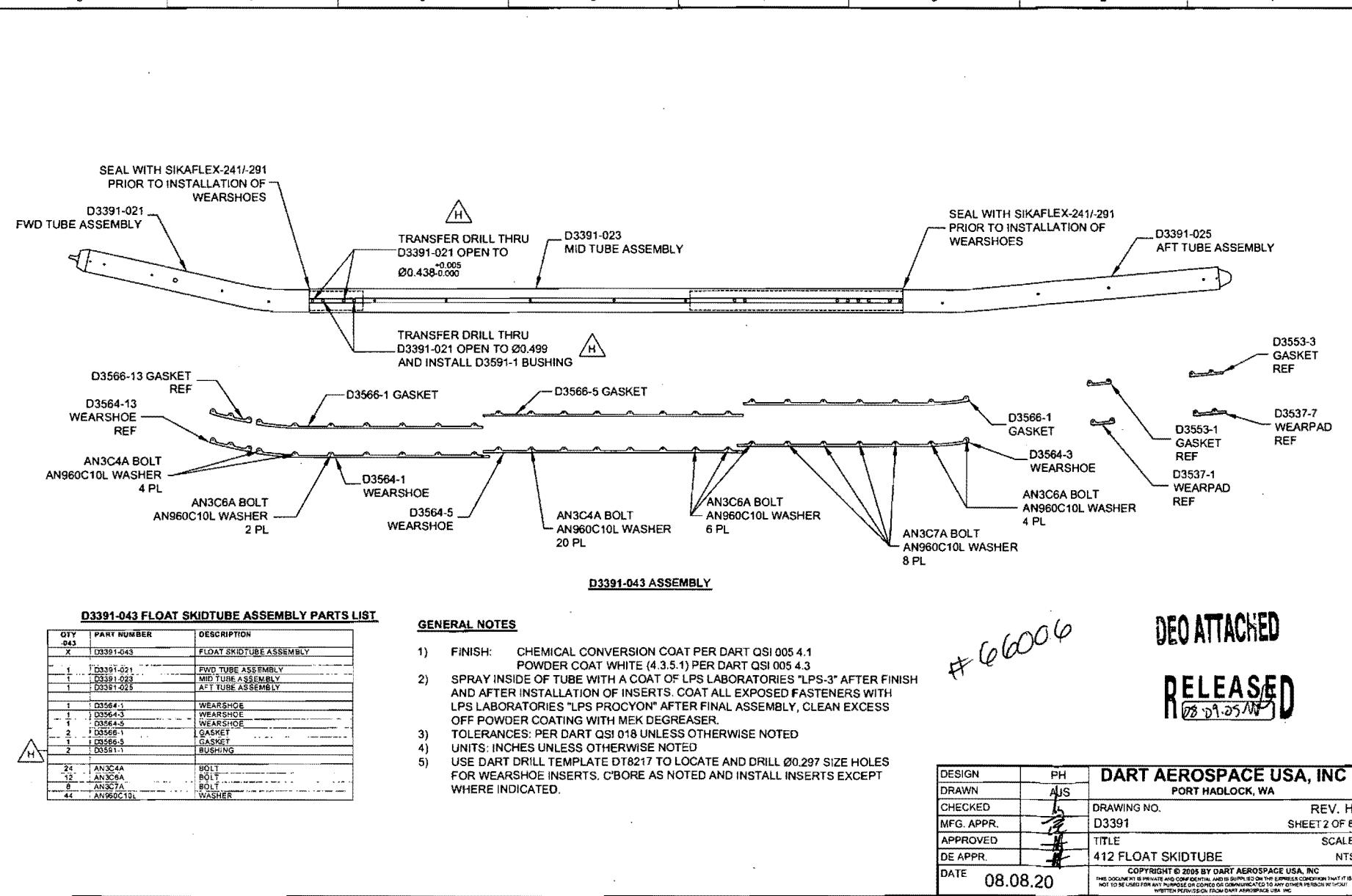
Measured by:	SL	Audited by:	DR	Prototype Approval:	N/A
Date:	11/02/15	Date:	11/02/15	Date:	N/A

Rev	Date	Change	Revised by	Approved
A	06.04.27	New Issue P/O D3391-011/-021	KJ/JLM	
B	06.06.19	Tolerances revised per D3391 Rev. E	KJ/JLM	
C	07.03.21	Dimensions removed per Dwg rev. F	KJ/JLM	
D	07.11.23	Dwg Rev. updated	KJ/EC/DD	<i>RE</i>
E	09.12.14	Dwg Rev updated	KJ	<i>AA</i>

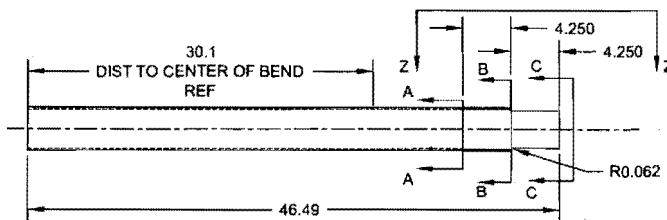




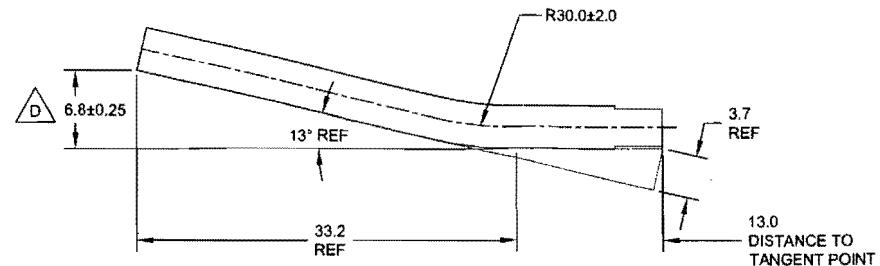




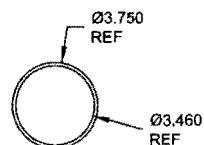




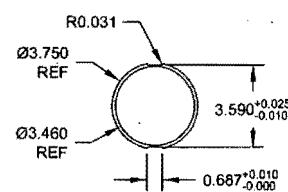
**D3391-1 CUTTING DETAIL**  
(MAKE FROM D6013-047 SKIDTUBE MATERIAL)



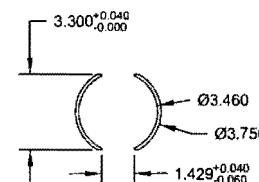
**D3391-011/-021 BENDING DETAIL**  
(MAKE FROM D3391-1)



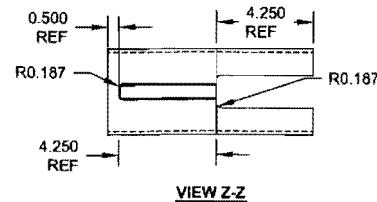
**SECTION A-A**  
SCALE 2X



**SECTION B-B**  
SCALE 2X



**SECTION C-C**  
SCALE 2X

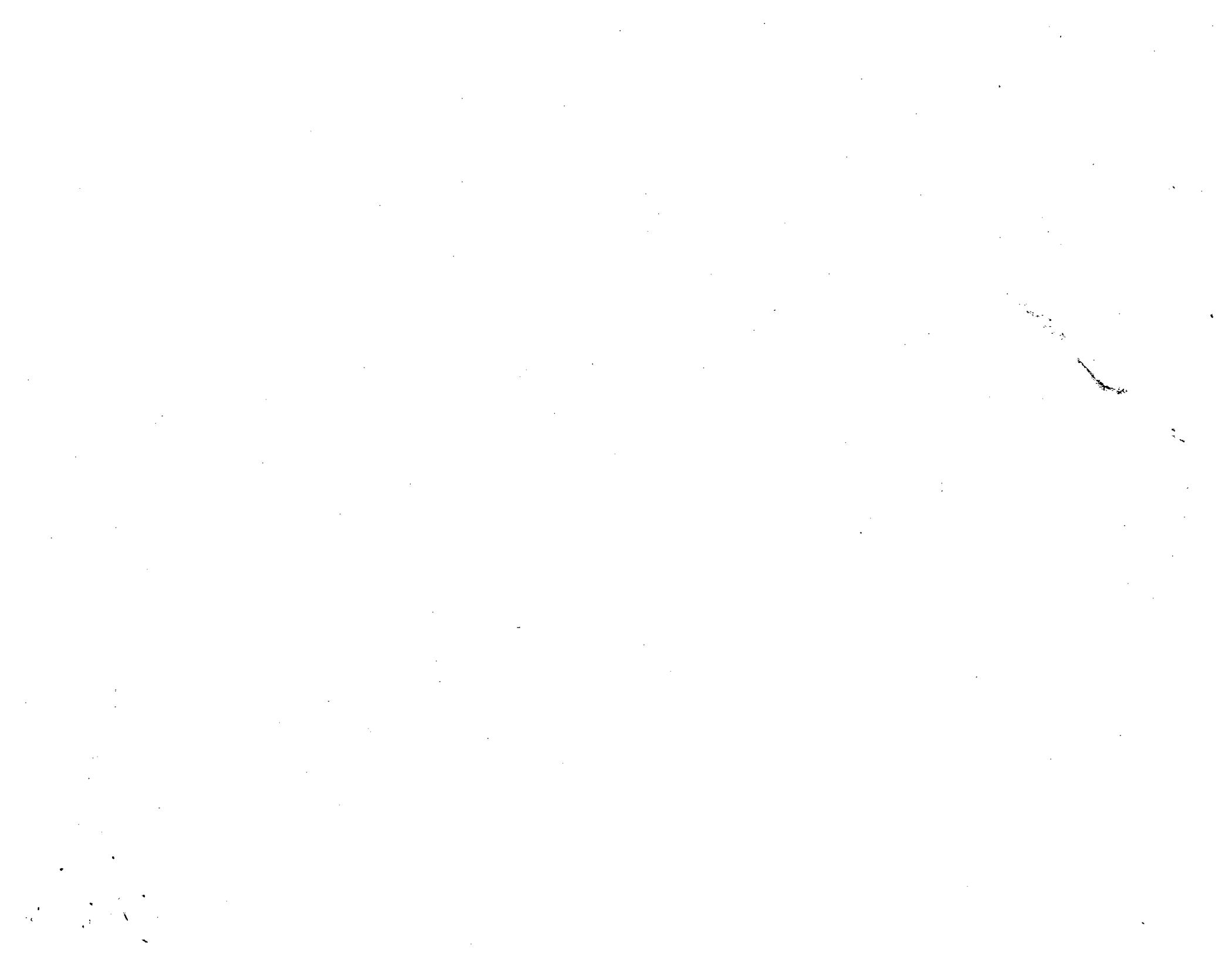


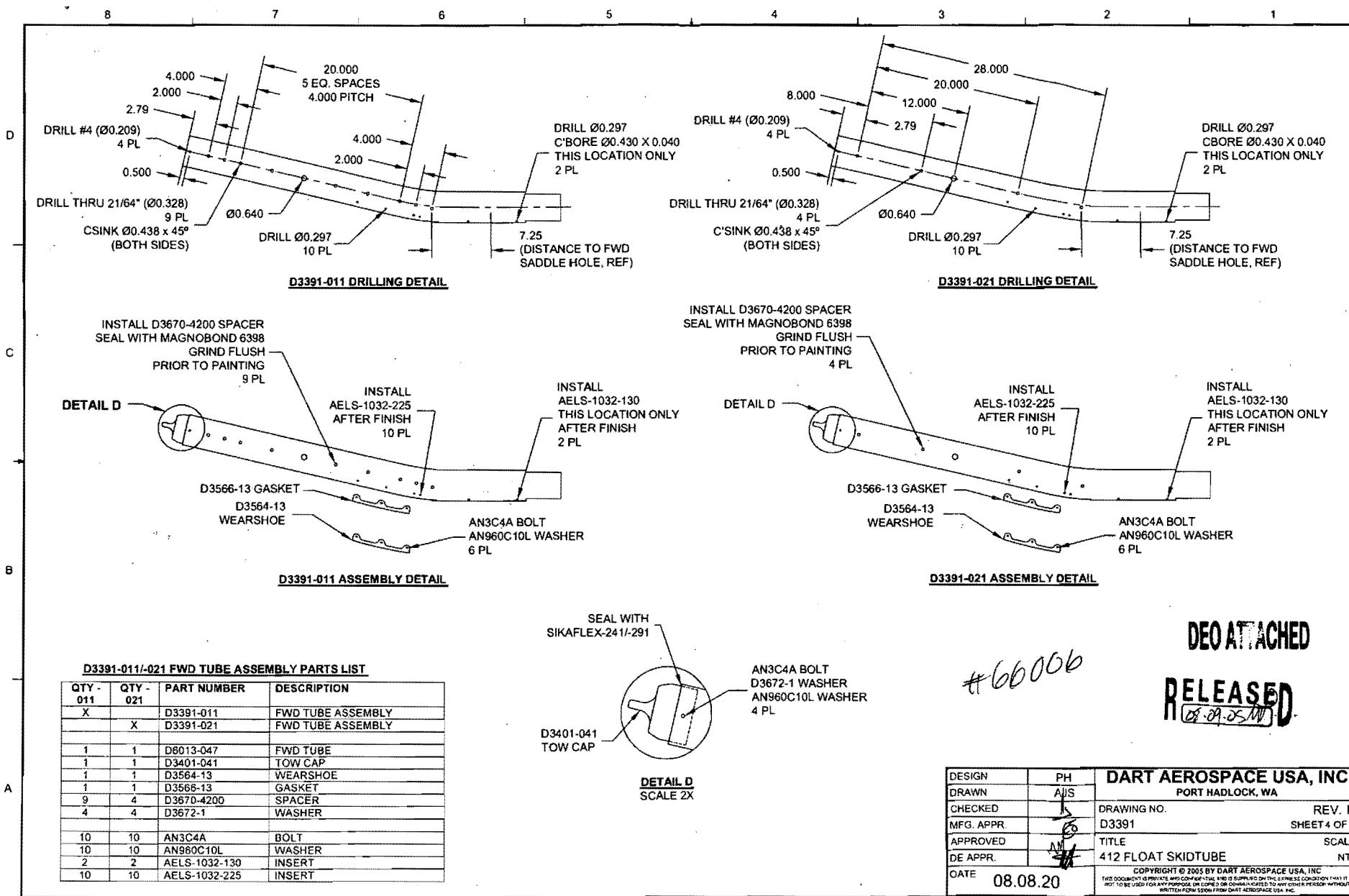
**VIEW Z-Z**  
SCALE 2X

*#66006*  
**DETACHED**  
**RELEASED**  
*08.08.20*

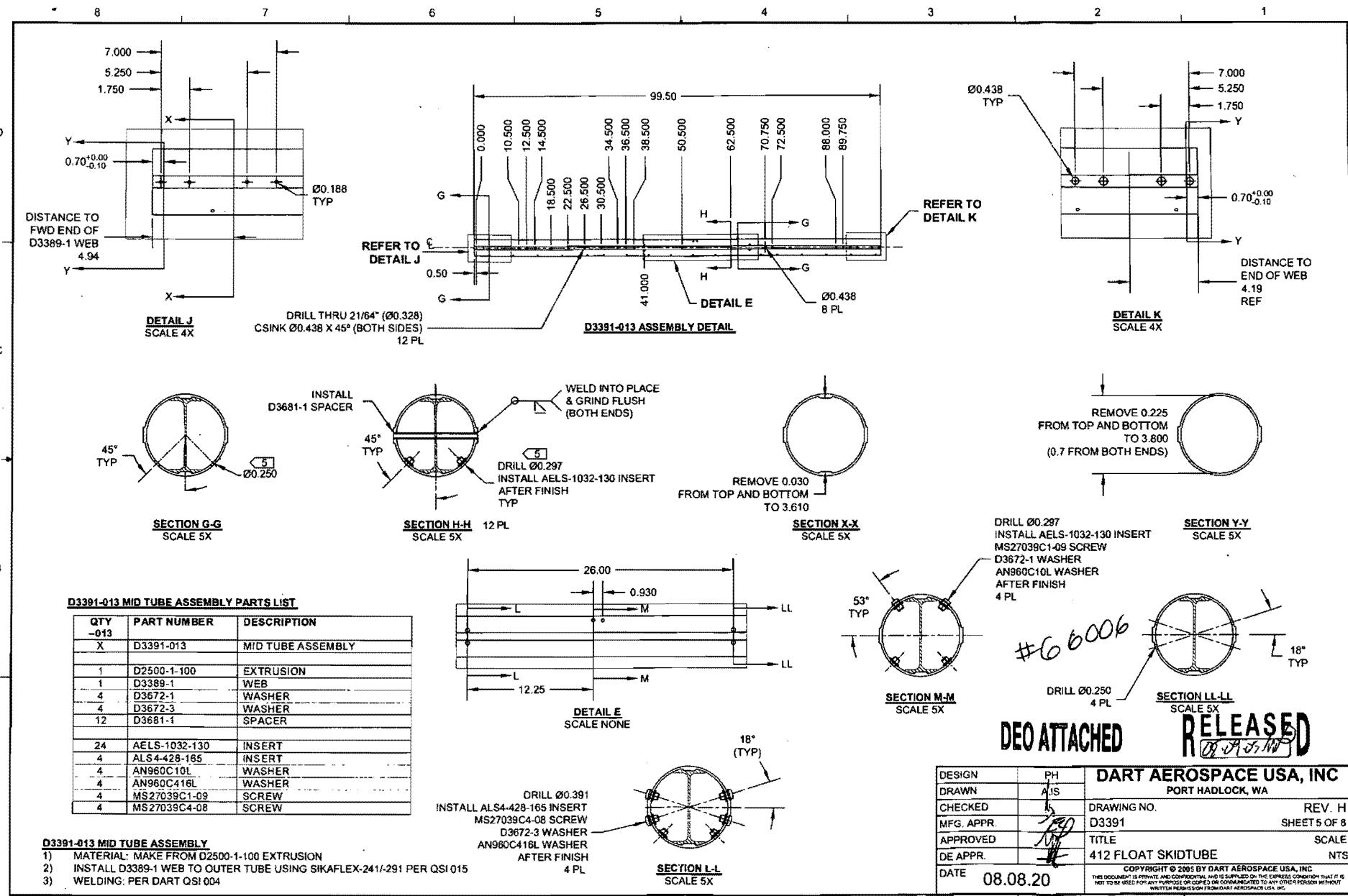
DESIGN	PH	DART AEROSPACE USA, INC
DRAWN	AUS	PORT HADLOCK, WA
CHECKED	<i>ES</i>	DRAWING NO. REV. H
MFG. APPR.	<i>ES</i>	D3391
APPROVED	<i>AN</i>	SHEET 3 OF 6
DE APPR.	<i>AN</i>	TITLE
DATE	08.08.20	SCALE
		412 FLOAT SKIDTUBE
		NTS

COPYRIGHT © 2006 BY DART AEROSPACE USA, INC.  
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS  
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT  
WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.







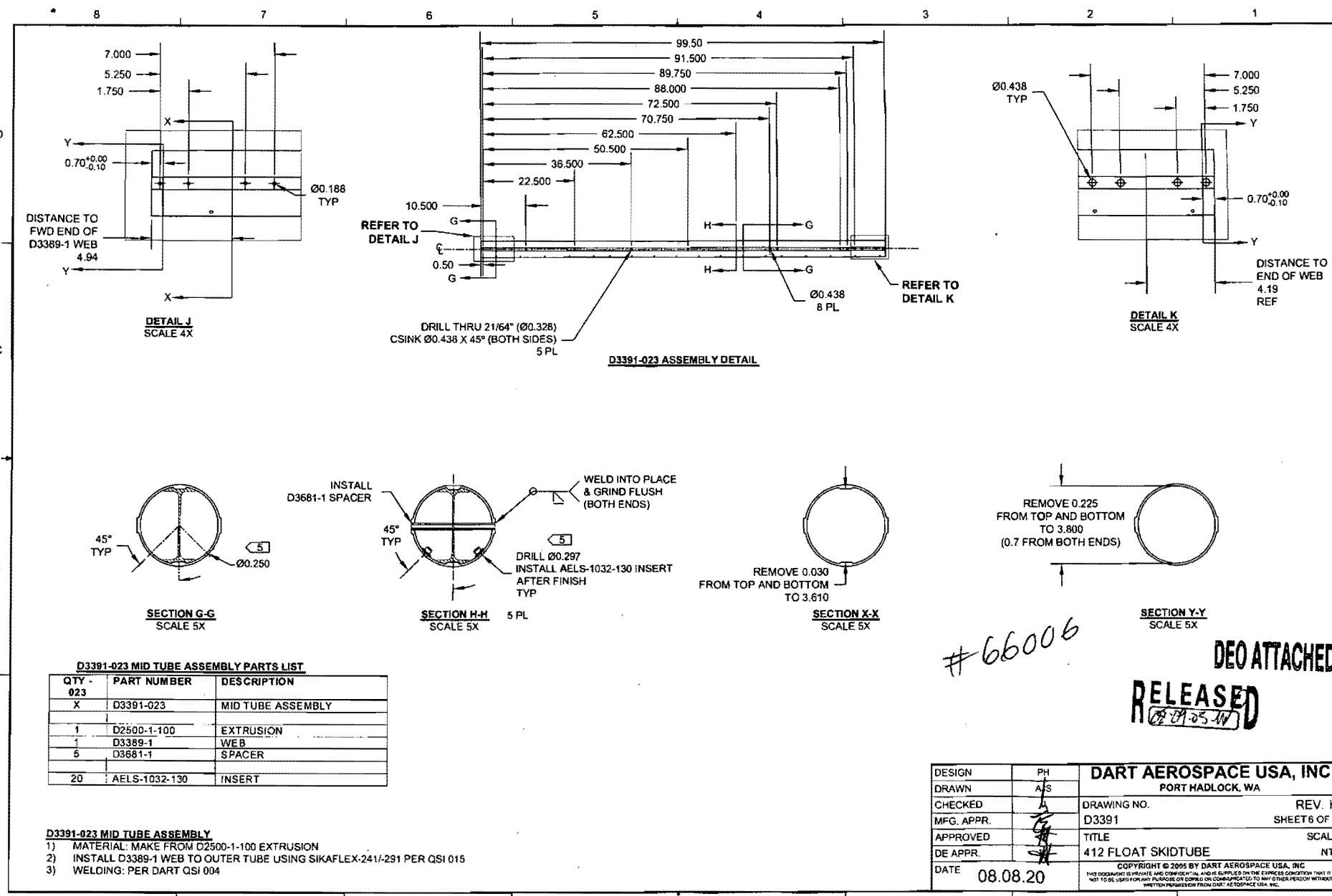


DEO ATTACHED

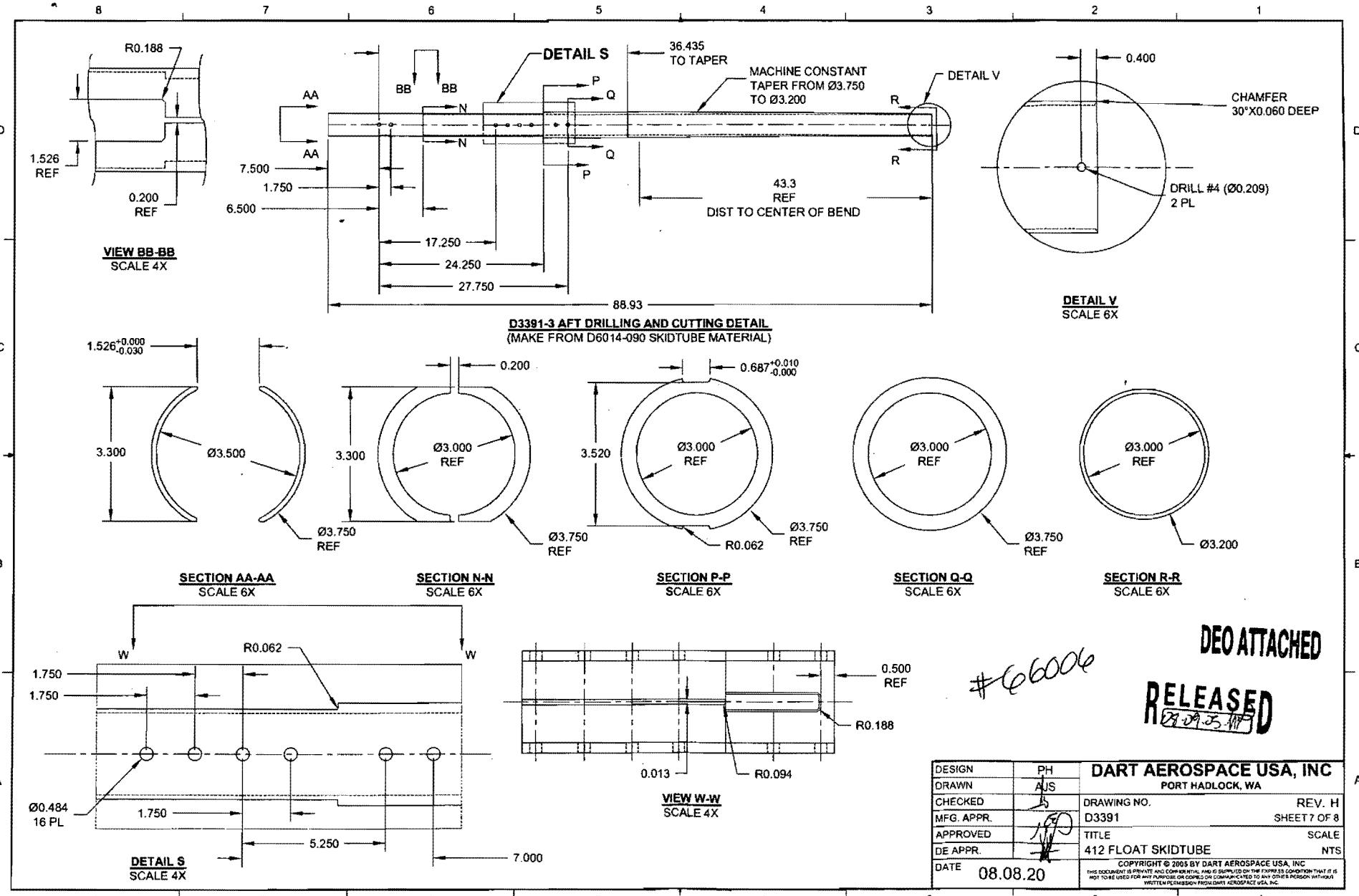
RELEASED  
10-19-2014

<b>DART AEROSPACE USA, INC</b>	
PORT HADLOCK, WA	
DRAWING NO.	REV. H
D3391	SHEET 5 OF 8
TITLE	SCALE
412 FLOAT SKIDTUBE	NTS
COPYRIGHT © 2005 BY DART AEROSPACE USA, INC.	
THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL. IT IS SUBJECT TO THE TRADE SECRET PROTECTION LAWS. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT WAS PROVIDED. IT IS PROHIBITED TO COPY, DISTRIBUTE, OR DISCLOSE THIS DOCUMENT TO ANY OTHER PERSON WITHOUT THE WRITTEN CONSENT OF DART AEROSPACE USA, INC.	

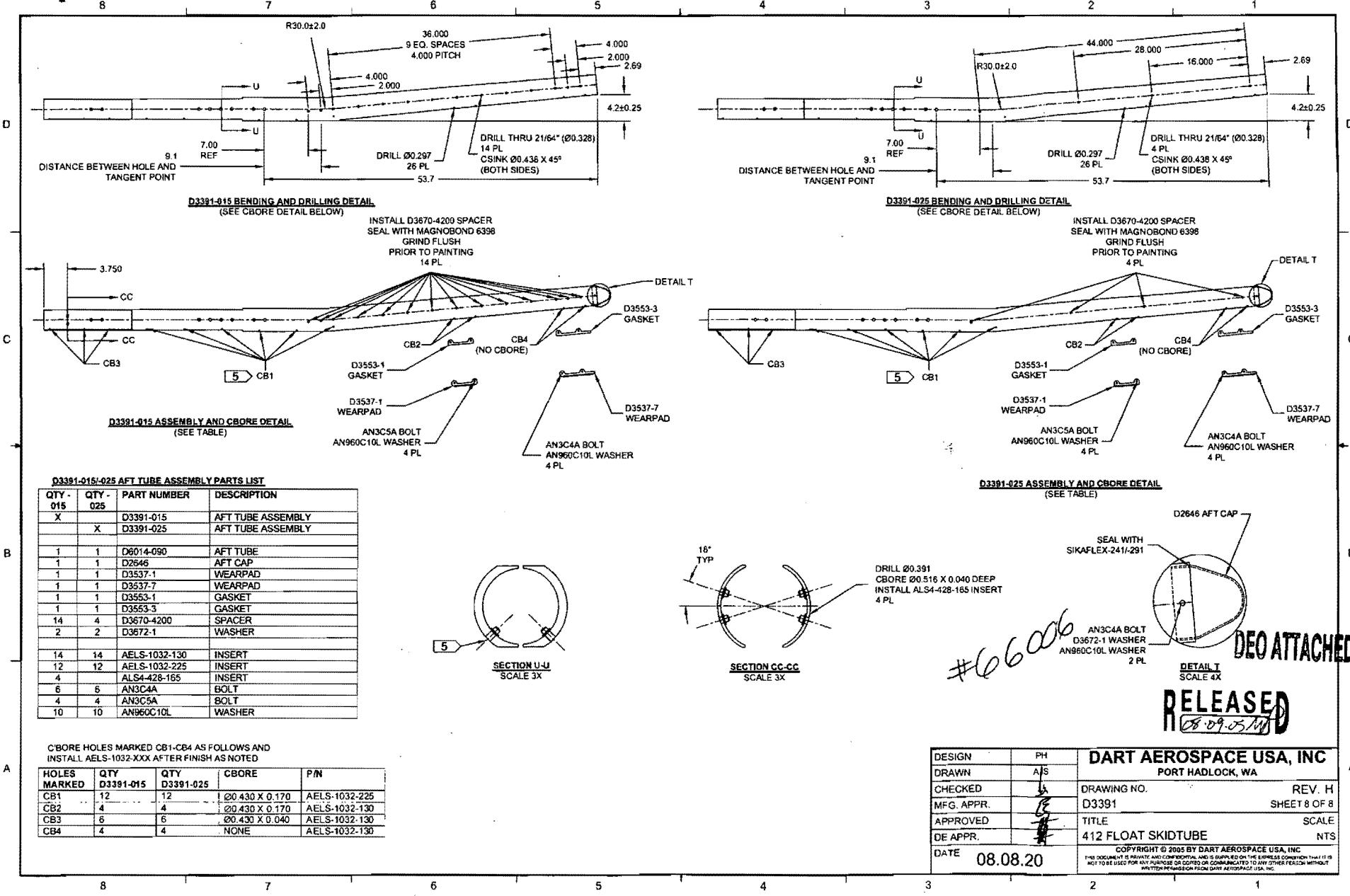














DRAWING NO. D3391	TITLE 412 FLOAT SKIDTUBE	REV. H	<b>DART AEROSPACE USA, INC</b> <b>ENGINEERING ORDER</b>		D.E.O. NO. D3391-H-1	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN <i>JP</i>	CHECKED <i>AA</i>		MFG. APPR. <i>AA</i>	APPROVED <i>My</i>	DE APPR. <i>AA</i>		
DATE 09.09.23	DATE 09.09.24	DATE 09/09/25	DATE 09/09/25	DATE 09/09/25	DATE 09/09/25	DATE 09/09/25	DATE 09/09/25

**PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

**CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) ~~SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH  
AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH  
LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS  
OFF POWDER COATING WITH MEK DEGREASER.~~

**RELEASED**  
2010-02-02

*NP*

*#6006*

